

50, 60 AND 72-INCH MOWERS FOR 55 SERIES TRACTORS



JOHN DEERE

OPERATORS MANUAL

50, 60 AND 72-INCH MOWERS FOR
55 SERIES TRACTORS

OMM91324 E6 English

JOHN DEERE LAWN & GROUNDS CARE
DIVISION
OMM91324 E6

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ENGLISH



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Introduction

Thank you for purchasing a John Deere product.

Read this manual carefully to learn how to operate and service your mower correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your mower and should remain with the mower when you sell it.

Right-Hand and Left-Hand sides of the mower are determined by facing in the direction the mower will travel when going forward.

Measurements in this manual are U.S. customary units and their metric equivalents.

Record your mower serial number in the Specifications section.



Your mower has metric and regular hardware. Use only metric hardware when you replace metric parts.



CAUTION: Use only metric tools on metric hardware. Other tools may not fit. They may slip and cause injury.

Warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual.

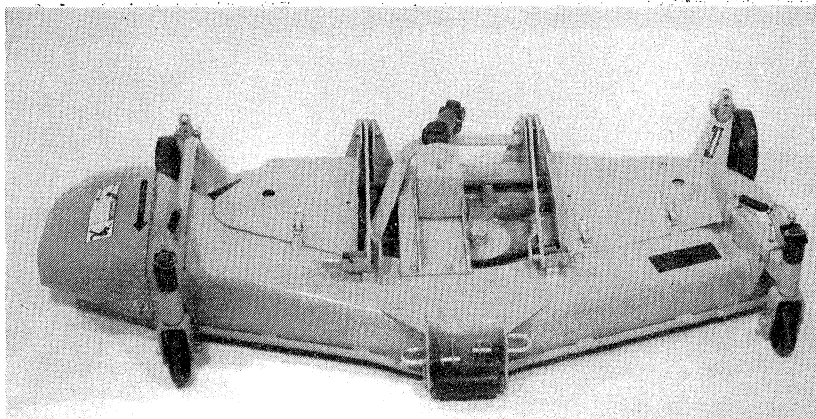
The warranty does not cover:

A—Products which have been altered or modified in ways not approved by John Deere, including setting fuel delivery above specifications or otherwise over-powering of products.

B—Depreciation or damage caused by normal wear, accident, lack of reasonable and necessary maintenance as specified in this manual, improper maintenance, improper protection in storage, or improper use or abuse.

C—Normal maintenance and replacement of service items such as filters, spark plugs, belts, brake linings, cutting blades and hoses unless such items are defective.

D—Transportation, mailing and service call charges for warranty service.



60-Inch Mower for 755 and 855 Tractors

All information, illustrations, and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

Dealer Checklists

DEALER'S RECORD

Owner's Name _____

Address _____

City _____ State _____ Zip Code _____

Mower Model _____ Date Sold _____

Mower Serial Number _____

6A9; M23;;DCHA A 140684

PREDELIVERY CHECKLIST

Check the following before you deliver the mower to the customer:

☐ 1. Guards and shields fastened in place

☐ 6. Blade mounting bolts

☐ 2. Decals fastened and legible

☐ 7. Mower level

☐ 3. Lubrication points

☐ 8. Mower operation

☐ 4. Mower gearbox oil level

☐ 9. Touch up paint

☐ 5. Mower belt

☐ 10. Clean and polish mower

Date Set Up

Signature

6A9; M23;;DCGE A 170284

DELIVERY CHECKLIST

Review the operator's manual with the customer.
Explain the following:

- ☐ 1. John Deere warranty
- ☐ 2. Safe operation and service
- ☐ 3. Installing the mower
- ☐ 4. Operating the mower correctly
- ☐ 5. Correct lubricants
- ☐ 6. Troubleshooting the mower
- ☐ 7. Periodic inspections
- ☐ 8. Servicing the mower regularly and correctly
- ☐ 9. Removing the mower
- ☐ 10. Storing the mower
- ☐ 11. John Deere parts and service
- ☐ 12. Have the customer write the mower serial number in the Specifications section.
- ☐ 13. Remove and file this page.
- ☐ 14. Tell the customer about helpful John Deere publications. Show customer the order form in back of this manual.
- ☐ 15. Give the customer the operator's manual. Encourage the customer to read the manual.

Date Delivered

Signature

M23;;DCAJ A 150285

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Safety

CERTIFICATION

**THIS MODEL HAS BEEN TESTED AND
EVALUATED BY THE MANUFACTURER
AND CONFORMS TO ANSI B71.4-1984
SAFETY SPECIFICATION FOR
COMMERCIAL TURF CARE EQUIPMENT**

6A9;M38195 M23;;SABC A1 110486

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

⚠ DANGER

⚠ WARNING

⚠ CAUTION

AB6;TS187 053;SIGNAL 071085

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.



AB6;T81389 053;ALERT 071085

FOLLOW SAFETY INSTRUCTIONS

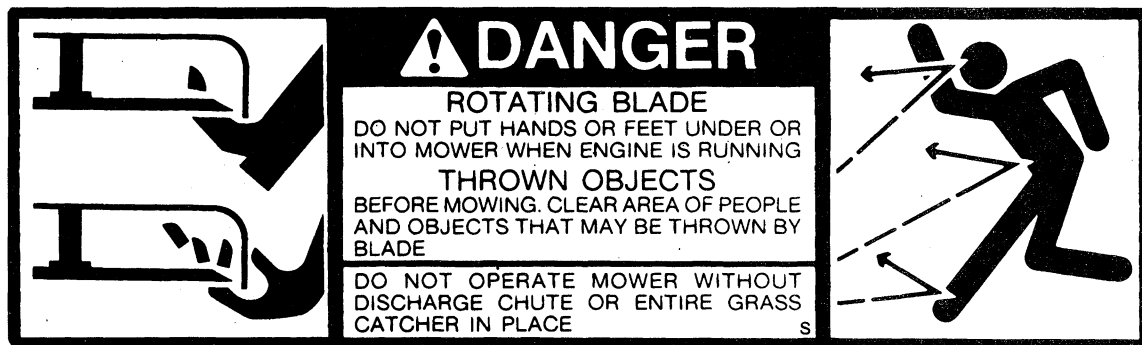
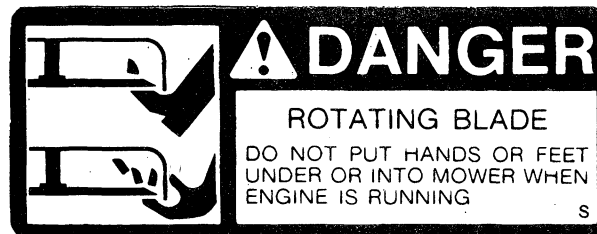
Carefully read all safety messages in this manual and on your machine safety signs. Follow recommended precautions and safe operating practices.

Keep safety signs in good condition. Replace missing or damaged safety signs.



AB6;TS188 053;SIGNS 071085

On Top Left Side of Mower Deck



On Top of Discharge Chute

6A9;M38614 M38613 M23;;SABC A 110486

KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



AB6;TS173 053;RIDER 261184

BACK UP SAFELY

Before you back up, LOOK BEHIND TRACTOR FOR CHILDREN. Keep children and pets out of mowing area. Do not let children ride on tractor or mower.

Do not operate the mower in reverse unless it is very necessary—and then only after you look carefully behind the tractor.

Be very careful when you back the tractor, especially if the PTO is engaged.



6A9;M39679 M23;;SABC B 110486

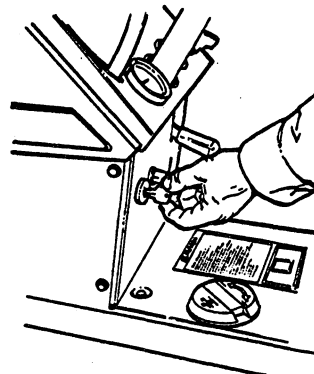
AVOID INJURY FROM MOVING PARTS

Put PTO lever in OFF position to stop blades:

- When you are not using the mower.
- Before you drive to a mowing job.
- Before you drive across a road, path, or a sidewalk.

Keep hands, feet, and clothing away from mower deck and discharge chute when blades are turning.

DO NOT adjust mower wheels or level mower while the engine is running. If these adjustments are to be made, STOP the engine and remove the key.



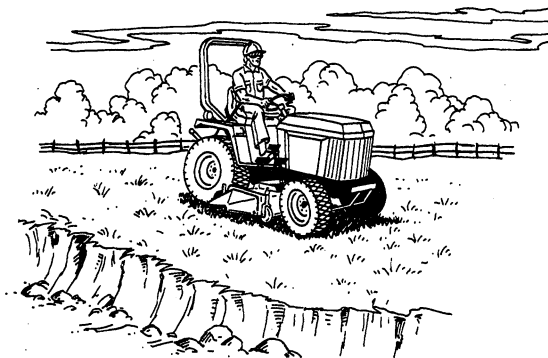
6A9;M39750 M23;;SABC C 110486

AVOID TIPPING WHILE MOWING

Watch for holes, rocks, roots, or other hidden hazards. Keep away from drop-offs.

Do not mow near the edge of gully or bank.

Before you make a sharp turn, slow down—especially on a slope.



6A9;M39680 M23;;SABC D 110486

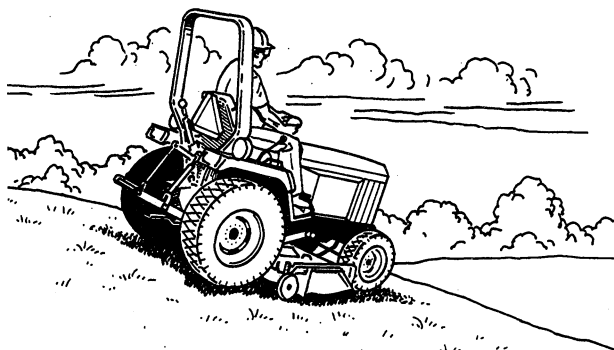
MOW SAFELY ON SLOPES

Operate up and down—not across—steep slopes. Avoid sudden starts and stops.

Drive tractor backwards up a steep slope with PTO off. Mow only as you travel down the slope.

Slow down before you change directions on a slope.

Use counterweights or wheel weights when suggested in your tractor manual.



6A9;M39681 M23;;SABC E 110486

OPERATE TRACTOR AND MOWER SAFELY

Do not run engine in an enclosed place unless there is plenty of ventilation: Exhaust fumes are dangerous.

Let the engine cool before you store tractor and mower in an enclosed place.

If you mow along roads or drive your tractor near roads, see your tractor operator's manual for safety recommendations. Watch for traffic when you cross roads or operate near roads.

Do not discharge grass across roads, driveways, or off banks.

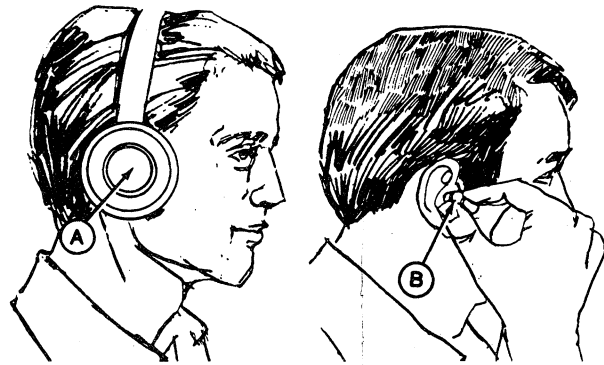


6A9;M39706 M23;;SABC F 110486

PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable uncomfortable loud noises.

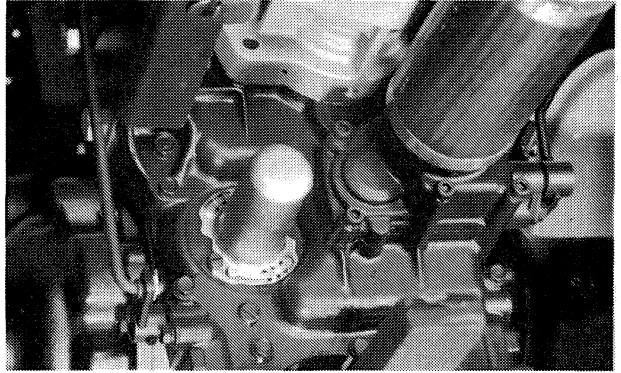


AB6;X7662 053;NOISE 150584

Installation

REMOVING PTO SHIELD

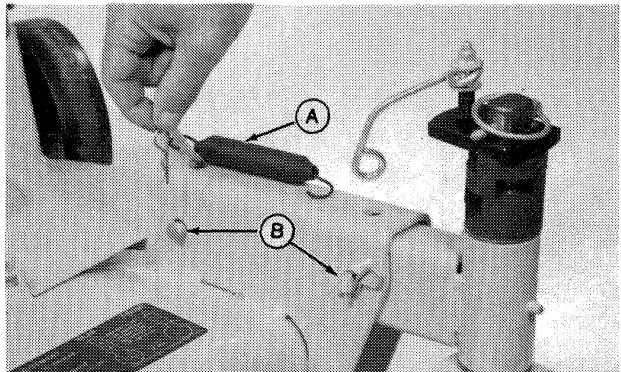
Turn shield to remove it from PTO shaft.



6A9;M39704 M23;;INBC A 110486

REMOVING LEFT-FRONT WHEEL ASSEMBLY—60 AND 72-INCH MOWERS ONLY

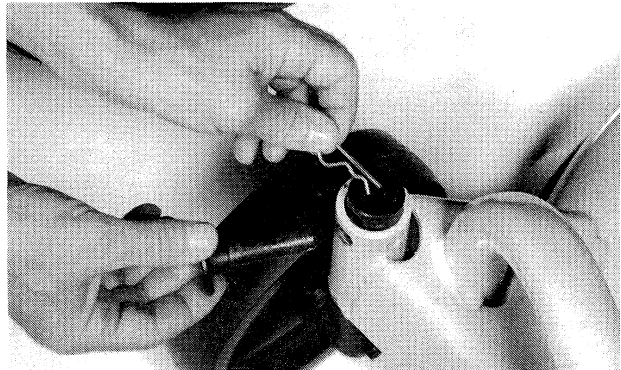
1. Disconnect spring (A).
2. Remove two spring locking pins and drilled pins (B).
3. Remove wheel assembly.



6A9;M39705 M23;;INBC B 220486

SLIDING MOWER UNDER TRACTOR

1. Put rear wheels in sideways position.
2. Turn tractor wheels fully to left.
3. Start engine. Pull lift lever to rear to raise lift arms under tractor. Stop engine.



6A9;M35699 M23;;INBC C 110486

4. Put lift links (A) in vertical position.
5. Disconnect spring (B). Turn right-front wheel sideways (60 and 72-Inch Mowers).
6. Push mower under tractor from the right side.
7. Install left-front wheel assembly (60 and 72-Inch Mowers).
8. Connect right-front wheel spring (60 and 72-Inch Mowers).



6A9;M39707 M23;;INBC D 110486

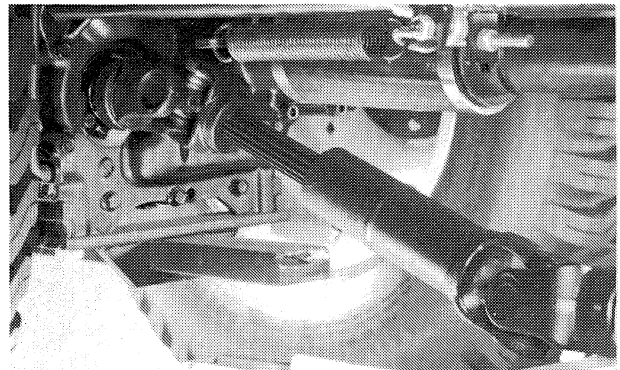
CONNECTING DRIVELINE

1. Pull back driveline collar.



6A9;M39708 M23;;INBC D1 110486

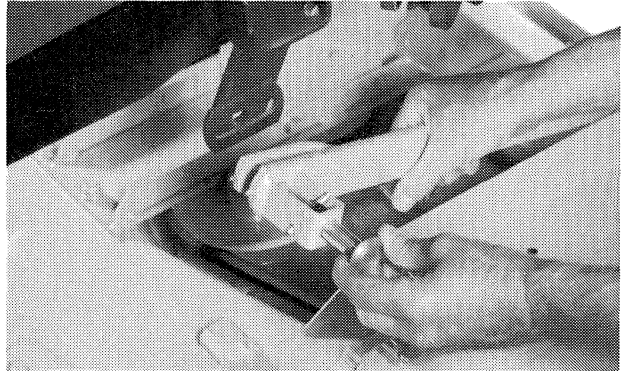
2. Push driveline coupler onto PTO shaft until it locks on shaft.



6A9;M39709 M23;;INBC E 110486

CONNECT REAR DRAFT ARMS

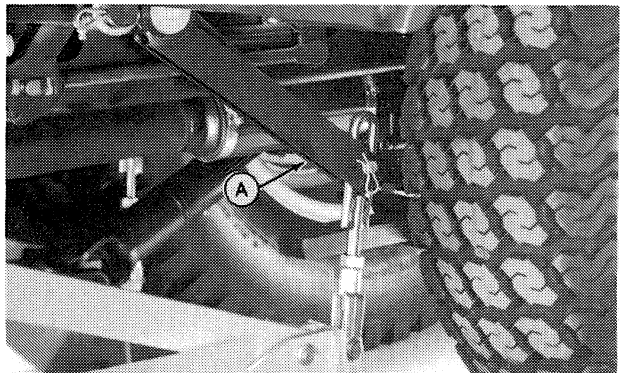
1. Put spring pin in locked position shown.
2. Install end of draft arm on tractor bracket.
3. Turn spring pin to release lock.
4. Move draft arm until pin snaps into place.



6A9;M39711 M23;;INBC F 110486

INSTALL LIFT LINKS

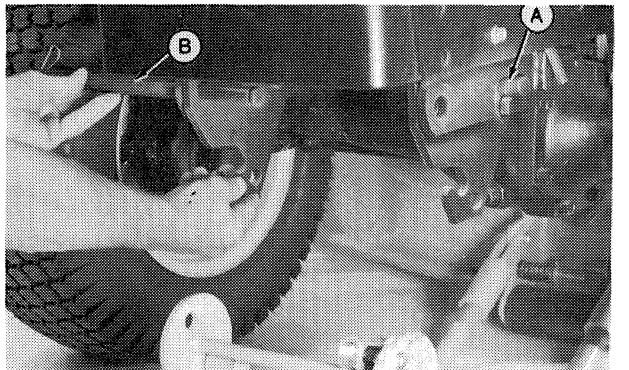
1. Push lift lever forward to lower lift arms (A).
2. Connect lift links to lift arms with drilled pins and spring locking pins.



6A9;M39710 M23;;INBC G 110486

INSTALLING FRONT BRACKET

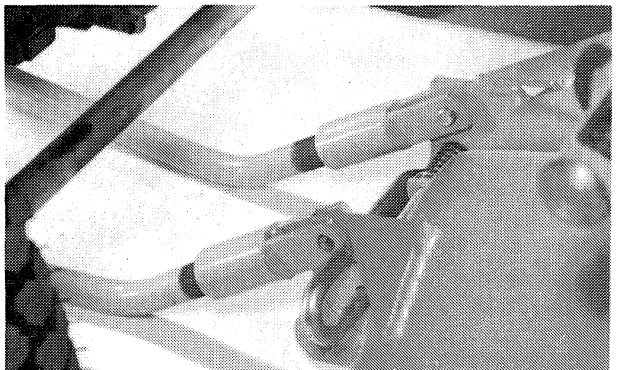
1. Install lugs (A) in slot.
2. Remove one spring locking pin from rod (B).
3. Install rod through both brackets.
4. Install spring locking pin on end of rod.



6A9;M39712 M23;;INBC H 110486

CONNECT FRONT DRAFT ARMS

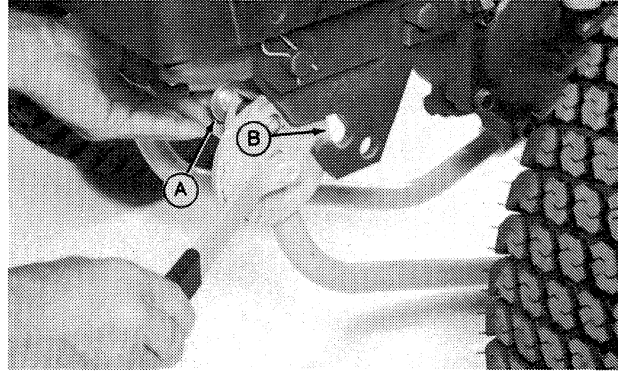
1. Connect arms to front of mower, with J-Pins.



6A9;M39713 M23;;INBC I 110486

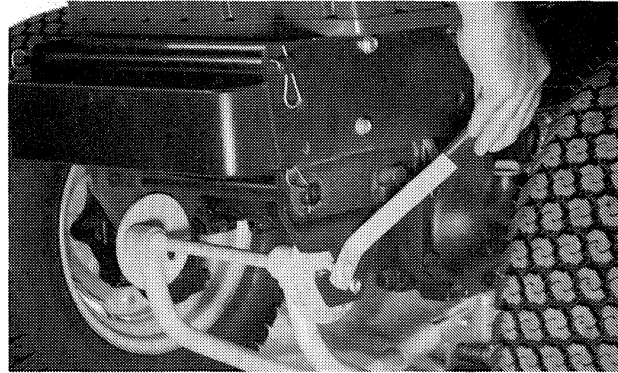
Installation

2. Put spring pin (A) in locked position.
3. Install lug in bracket slot (B).



6A9;M39714 M23;;INBC J 110486

4. Pivot handle (shown) to rear until spring pin snaps into place.



6A9;M39715 M23;;INBC J1 110486

Operating the Mower

LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



AB6;M35220 053;READ1 080785

CHECK GROUND CONDITIONS

Clear the mowing area of objects that might be picked up and thrown. Keep people and pets out of mowing area.

Consider the type of area you plan to mow. Set up a safe mowing pattern. Do not mow under conditions in which traction or stability is doubtful: first test drive the area with PTO OFF and mower in the down position.

Travel slowly over rough ground.



A97;M33725 M23;OMAJ AD 171285

WEAR PROTECTIVE CLOTHING

Wear fairly tight clothing. and safety equipment.

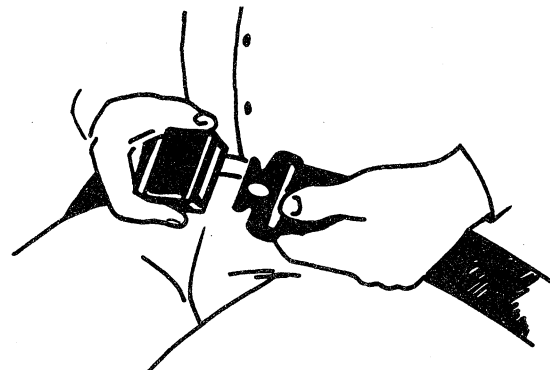


AB6;T85056 053;WEAR1 080785

USE SEAT BELT PROPERLY

Use a seat belt when you operate with a roll-over protective structure (ROPS) to minimize chance of injury from an accident such as an overturn.

Do not use a seat belt if operating without a ROPS.



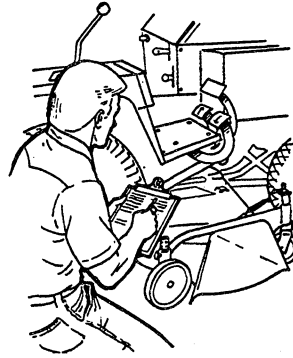
AB6;TS175 053;ROPS1 261184

BEFORE MOWING

Follow the Prestaring Checks in your tractor operator's manual.

CHECK:

- Guards, shields, and chute fastened in place
- Condition of belts and blades
- Loose or missing hardware or parts
- Worn or damaged parts
- Cutting height
- Controls operate correctly



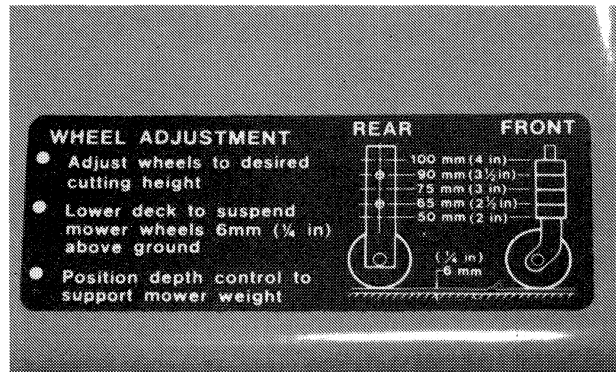
6A9;M39716 M23;;OMBC A 110486

ADJUSTING REAR WHEELS

IMPORTANT: Wheels must not ride on ground and support mower weight. All wheels must be 1/4 in. (6 mm) above ground when mower is at desired cutting height.

Use the chart at right, or the decal on your mower, to adjust wheels for desired cutting height.

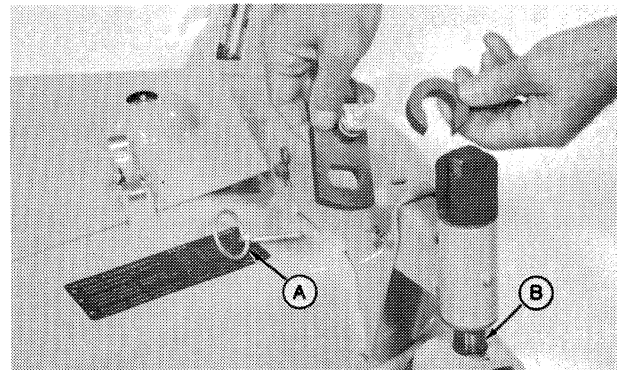
1. Raise the mower. Remove drilled pin and spring locking pin.
2. Adjust wheels to desired cutting height.
3. Install drilled pins. Push spring locking pins all the way onto drilled pins.



6A9;M39717 M35710 M23;;OMBC B 110486

ADJUSTING FRONT WHEELS

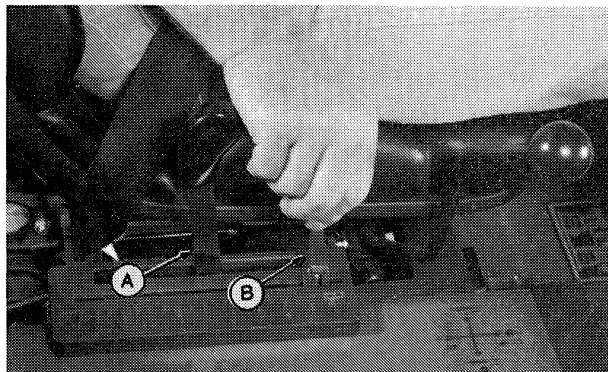
1. Remove quik-lock pin (A) and spring arm.
2. Install correct number of spacers on shaft (B) for desired cutting height.
3. Install spring arm and pin.



6A9;M39718 M23;;OMBC C 110486

ADJUSTING CUTTING HEIGHT WITH LIFT LEVER

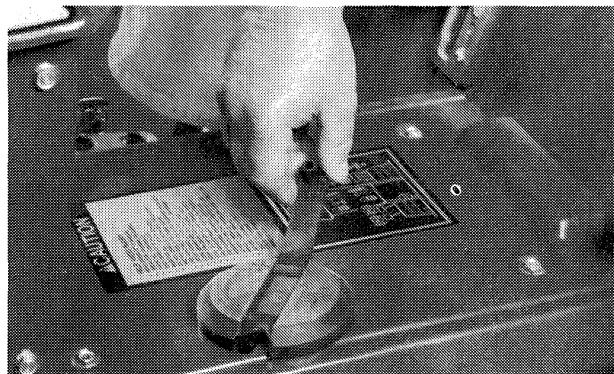
1. Park tractor on a hard, level surface.
2. Adjust mower wheels. (See Adjusting Wheels in this section.)
3. Lower mower with lift lever (A) until wheels are 1/4 in. (6 mm) above hard surface.
4. Raise lift lever stop (B) to vertical position. Slide it against the lift lever. Push it down to lock it.



6A9;M39719 M23;;OMBC D 110486

ADJUSTING CUTTING HEIGHT WITH DEPTH CONTROL

1. Park tractor on a hard, level surface.
2. Adjust mower wheels. (See Adjusting Wheels in this section.)
3. Raise mower as high as it will go.
4. Turn depth control lever counterclockwise so mower will lower below cutting height.
5. Lower mower to desired cutting height.
6. Turn depth control lever clockwise to hold mower at cutting height.



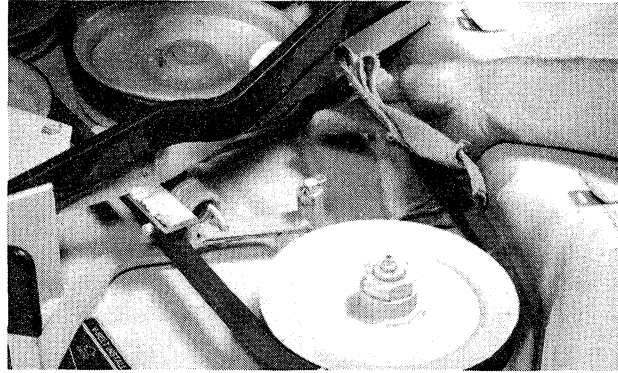
NOTE: To lock mower in fully raised position so you can use rockshaft to lift another attachment:

1. Raise mower to full height.
2. Turn depth control clockwise until it is tight to hold mower at that height.

6A9;M39579 M23;;OMBC E 110486

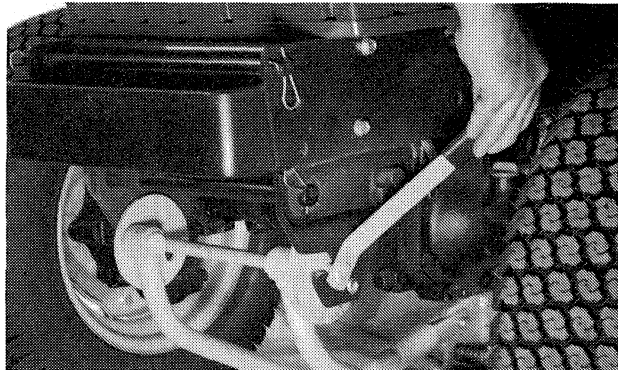
ADJUSTING MOWER LEVEL FRONT-TO-REAR

1. Park tractor on a hard, level surface, such as a cement floor.
2. Check tractor tire pressure. (See Checking Tire Pressure in Service/As Necessary section.)
3. Lower mower to cutting height.
4. Turn blade on right side to point straight forward.
5. Measure distance from front blade tip to floor.
6. Turn blade halfway around (180°) so blade again points straight forward.
7. Measure distance from rear blade tip to floor.
8. Rear measurement should be 1/8 in. (3 mm) more than front measurement.



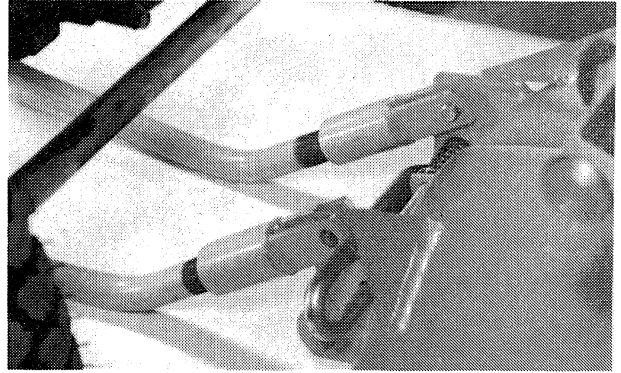
6A9;M35725 M23;;OMBC F 110486

9. If mower needs to be leveled, put spring pin (inside of left tractor bracket) in locked position.
10. Pivot handle forward.
11. Release draft arm pivot assembly from tractor bracket.



6A9;M39715 M23;;OMBC G 110486

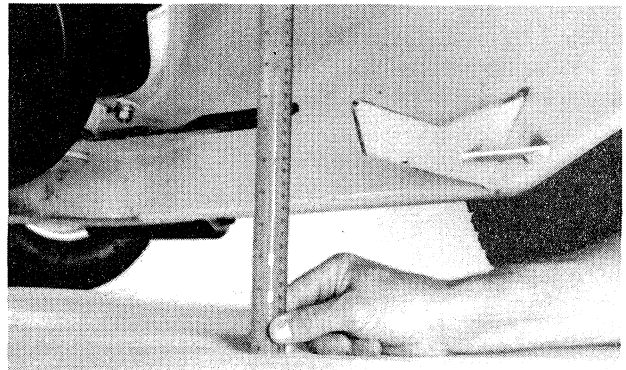
12. Disconnect draft arms from mower.
13. Turn ends of draft rods same number of turns to adjust level. Turn end clockwise to raise the mower. Turn end counterclockwise to lower mower.
14. Connect draft arms to mower with J-pins.
15. Install pivot assembly in tractor bracket. Pivot handle to rear until spring pin snaps into place.
16. Check blade tip measurements again. Adjust as necessary.



6A9;M39713 M23;;OMBC H 110486

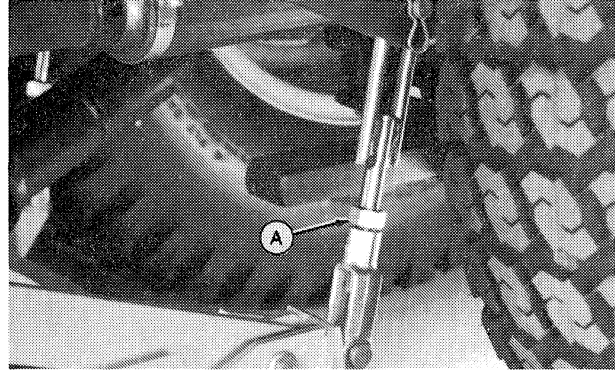
ADJUSTING MOWER LEVEL SIDE-TO-SIDE

1. Park tractor on a hard surface, such as a cement floor.
2. Level mower front-to-rear. (See Adjusting Mower Level Front-to-Rear in this section.)
3. Check tire pressure. (See Checking Tire Pressure in Service/As Necessary section.)
4. Lower mower to cutting height.
5. Turn each outer blade straight to side.
6. Measure distance from outer tip of each blade to hard surface.
7. Difference between measurements should not be more than 1/8 in. (3 mm).



6A9;M35722 M23;;OMBC I 110486

8. If mower needs to be leveled, loosen nut (A).
9. Disconnect lift link from tractor lift arm.
10. Turn rod to raise or lower one side of mower.
11. Connect lift link to lift arm.
12. Check blade-to-surface measurements again.
13. Tighten nut.

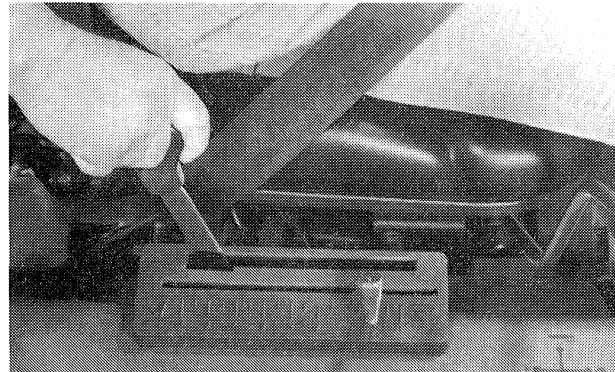


6A9;M39720 M23;;OMBC J 110486

RAISING AND LOWERING MOWER

Pull lever to rear to raise mower.

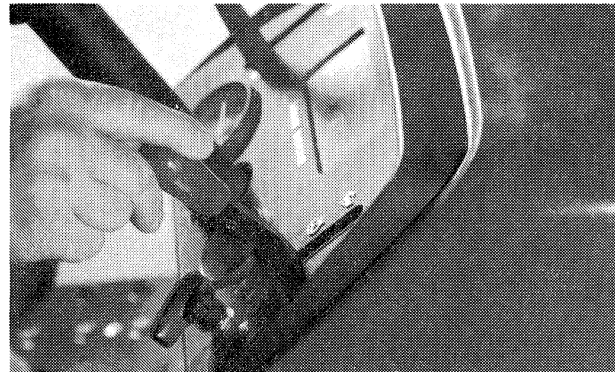
Push lever forward to lower mower.



6A9;M39562 M23;;OMBC L 110486

OPERATING THE MOWER

1. Start engine.
2. Lower mower to cutting height.
3. Put throttle lever at one-third speed position.



6A9;M39556 M23;;OMBC M 110486



CAUTION: Before you start the mower:

- Be sure no one is near the mower.
- Be sure no one is in the path of objects that could be thrown from discharge chute.

IMPORTANT: Do not engage PTO with throttle lever in **FAST** position or you may damage tractor and mower.

4. Move PTO lever to ENGAGE position (shown) to start mower.



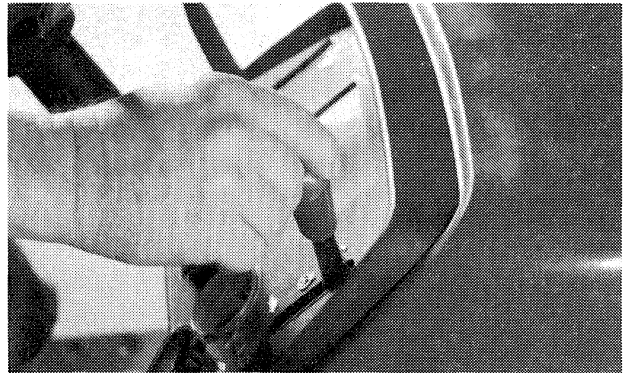
6A9;M39573 M23;;OMBC N 110486

5. Move throttle lever to FAST position for best performance and cutting results.



CAUTION: Be sure the area is clear before you begin mowing.

6. Push down the forward hydrostatic control pedal slowly to begin forward travel.
7. Mow at a safe travel speed.



6A9;M39566 M23;;OMBC O 110486

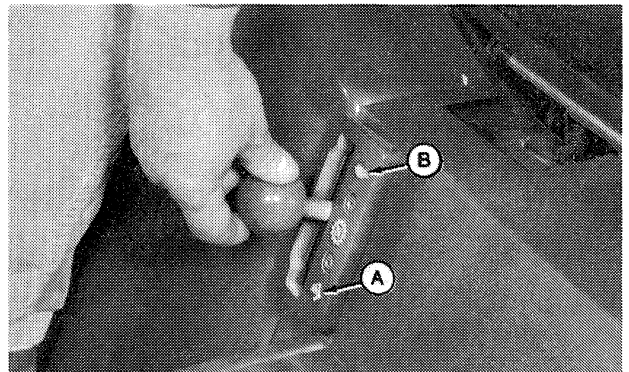
MOWING TRAVEL SPEEDS

Use slow travel speed (B) for:

1. Trimming.
2. Working in close quarters.
3. Mowing tall grass.

Use faster travel speeds (A) for:

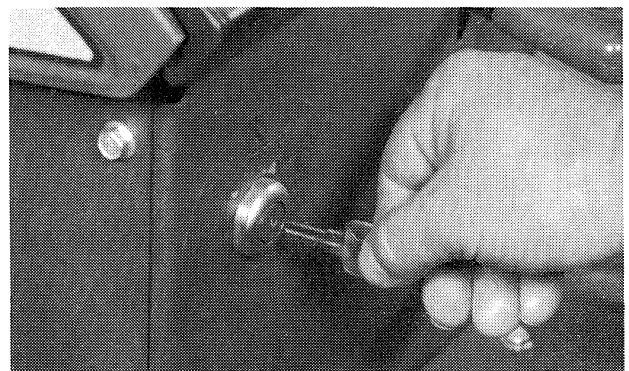
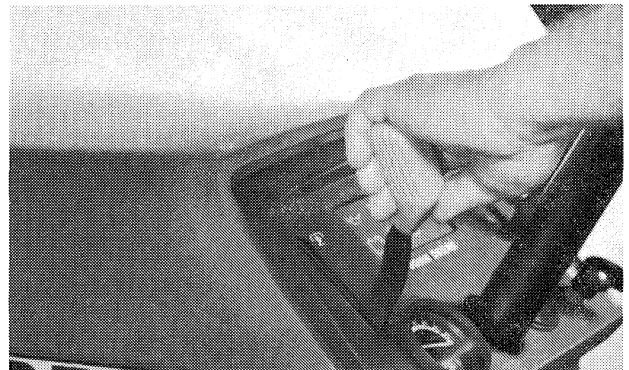
1. Normal mowing on level ground.
2. Driving between mowing jobs.



6A9;M39564 M23;;OMBC P 110486

DISMOUNTING TO INSPECT MOWER

1. Stop tractor.
2. Put throttle lever at SLOW position.
3. Pull PTO lever (shown) back to disengage position.
4. Stop engine.
5. Lock park brake.
6. Lower mower to cutting position.
7. The mower blades may keep on turning for a few seconds after you disengage PTO (or get off seat). Wait until mower stops before you dismount.
8. Remove key.



6A9;M39552 M39561 M23;;OMBC Q 220486

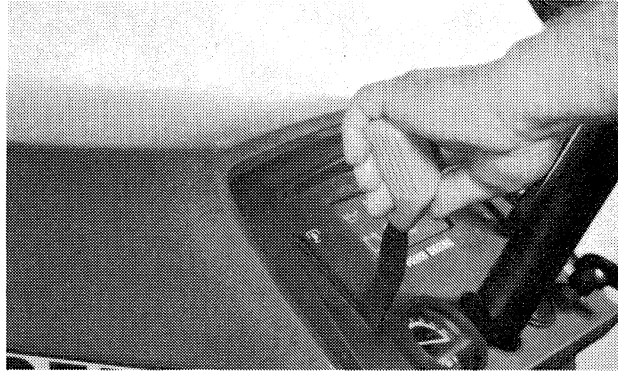
STOPPING MOWER



CAUTION: Wait until blades stop before you leave operator's seat to check mower.

Put PTO lever back to OFF position at any time while you are mowing to stop the mower.

If you hit an object with mower while mowing, stop mower immediately. Inspect mower for damage.



6A9;M39552 M23;;OMBC R 110486

MOWING FOR A BETTER LAWN

Cut grass only when it is dry. Wet grass may plug mower and leave a trail of grass clumps (shown).

Mow grass often. Short grass clippings will decay quickly.

Try to discharge grass down a slope, not up a slope.

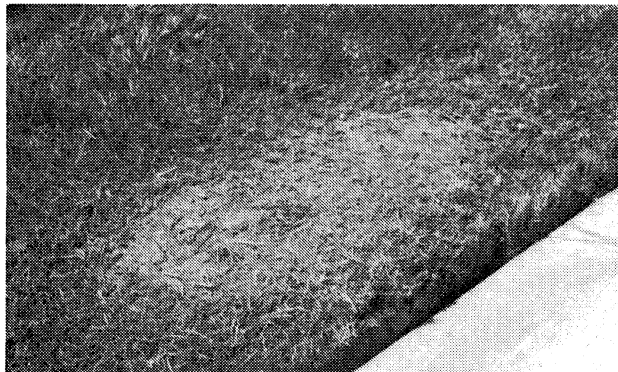


6A9;M32856 M23;;OMBC S 110486

Cutting grass too short may kill grass and let weeds grow easily.

Keep blades sharp. A dull blade will tear grass. Tips of grass will then turn brown.

Slow down before you make a turn. Short, fast turns may scuff the ground and pull grass out by the roots.



6A9;M32859 M23;;OMBC T 110486

PREVENTING UNEVEN CUT

CHECK:

Mower wheel adjustment. (See this section.)

Mower level. (See this section.)

Tire pressure. (See tractor operator's manual.)

Slow down before you make a turn.

Keep mower blades sharp.



6A9;M32860 M23;;OMBC U 110486

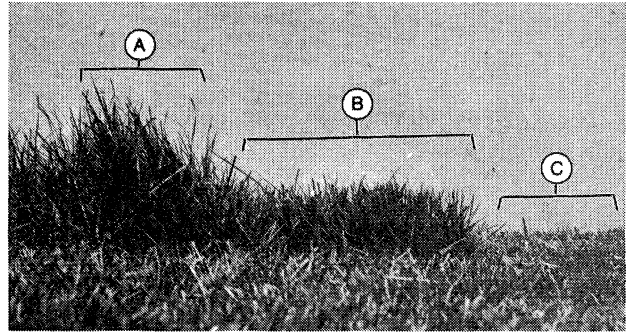
MOWING TALL GRASS

First method: mow grass twice.

1. Adjust cutting height of mower to mow tall grass (A) to half height (B).
2. Before second pass, adjust cutting height so you can mow at desired height (C).

Second method:

1. Mow at desired height at slow travel speed, full width OR
2. Mow at desired height using only half of cutting width.

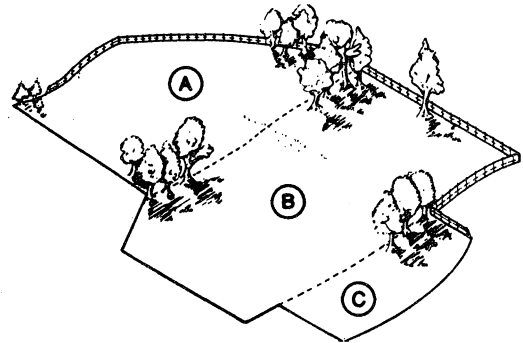


6A9;M27196 M23;;OPGE U 160284

MOWING UNEVEN AREAS

Divide uneven areas into sections (Example: A, B, C).

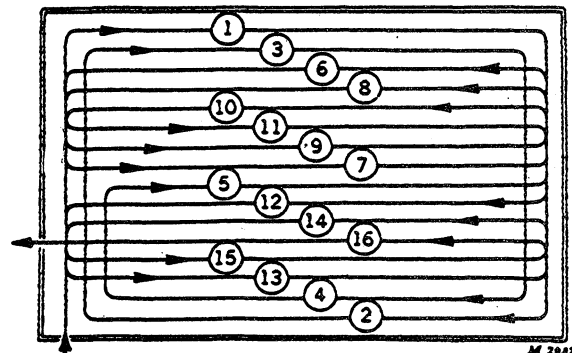
Change your mowing pattern regularly.



A97;M33868 M23;;OMAJ Z 150285

MOWING LARGE AREA

Use this mowing pattern for a large, open area.



A97;M2987 M23;;OMBC V 220486

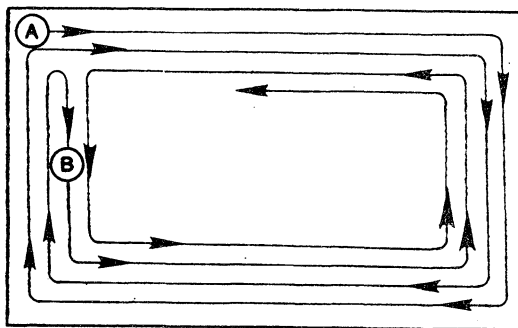
MOWING SMALL AREA

1. Mow two or three right-hand rounds (A) along the edges of area. Normally do not mow more than three right-hand rounds because:

- Clippings will build up.
- Mower could tend to plug.
- Cutting will be uneven.
- Engine could be overloading.

2. Then mow left-hand rounds (B) to finish.

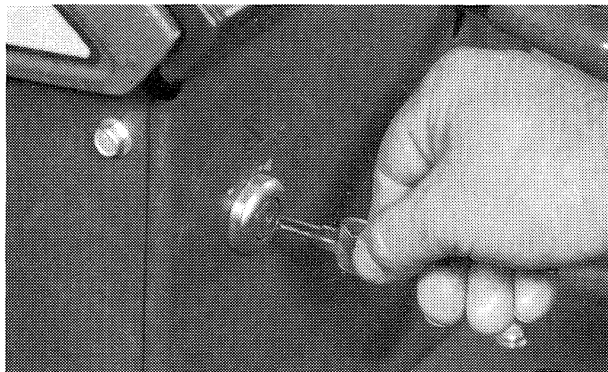
3. Turn to left when you trim around trees or bushes.



6A9;M33867 M23;OMBC W 110486

AFTER MOWING

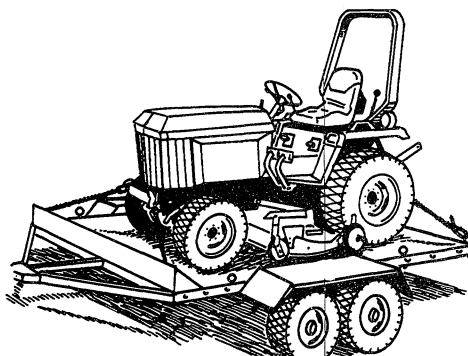
1. Lock park brake. Stop engine. Remove key.
2. Clean under mower deck and drive belt area with water pressure from garden hose. Lubricate all grease points on mower after you use a high pressure sprayer.
3. Lower mower to ground.



6A9;M39561 M23;OMBC X 110486

TRANSPORTING YOUR MOWER

1. Use a heavy-duty trailer to transport your tractor and mower.
2. Lower mower to trailer deck. Lock park brake.
3. Trailer must have lights and signs required by law.
4. Fasten the tractor and mower to the trailer with straps, chains, or cables.



6A9;M39682 M23;OMBC Y 220486

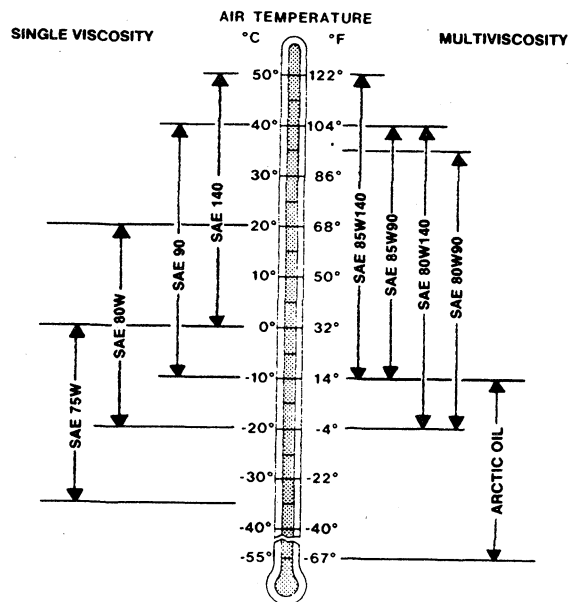
Lubrication

GEAR BOX OIL

Use oil as shown on the temperature chart for the expected air temperature range during the service interval.

John Deere API GL-5 Gear Oil is recommended. If other oils are used, they must meet performance requirements of:

- API Service Classification
GL-5
- Military Specification
Mil-L-2105C



6MA;X9322 M45;;LUB A 070284

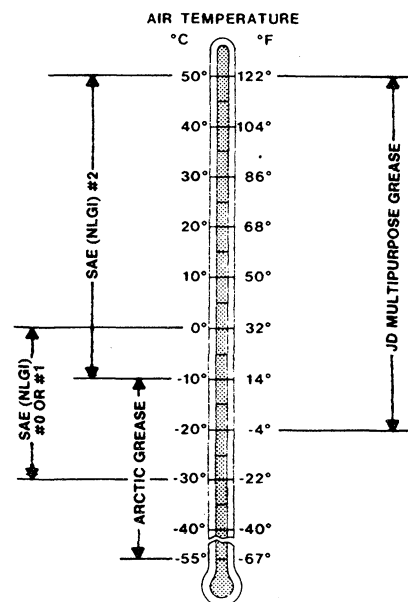
GENERAL PURPOSE GREASE

Use grease as shown on the temperature chart for the expected air temperature range during the service interval.

John Deere Multi-Purpose Lubricant is recommended. If other lubricants are used, use:

- SAE Multipurpose Grease.
- SAE Multipurpose Grease containing 3 to 5 per cent molybdenum disulfide.

At temperatures below -22°F (-30 °C), use arctic greases such as those meeting Military Specification MIL-G-10924C.



6A9;X9326 M23;;LUGE B 140384

ALTERNATIVE LUBRICANTS

Conditions in certain geographical areas may require special lubricants and lubrication practices which do not appear in this operator's manual. If you have any questions, consult your John Deere dealer to obtain the latest information and recommendations.

AB6; 053;ALTER 120584

Troubleshooting

Symptom	Problem	Solution	Page
Discharge chute plugged	Belt not installed correctly.	Check belt.	27
	Grass too wet.	Wait for grass to dry.	
	Grass too long.	Raise cutting height and cut grass twice.	11
	Travel speed too fast. Engine rpm too low.	Slow down. Mow at full throttle.	15
Patches of grass uncut	Travel speed too fast.	Slow down.	
	Engine rpm too low.	Mow at full throttle.	15
	Blades dull or damaged.	Sharpen or replace blades.	26
	Drive belts slipping. Idler pivot binds.	Check drive belts. Clean and lubricate pivot housing.	27 24
Belt slipping	Mower plugged.	Unplug and clean mower.	
	Trash in pulleys.	Clean pulleys.	
	Belt tension spring broken.	Replace spring.	
Excessive vibration	Trash on mower deck or in pulleys.	Clean mower deck.	
	Damaged drive belt.	Replace belt.	30
	Damaged pulley or pulleys out of alignment.	Replace pulleys. See you John Deere dealer.	
	Blades out of balance.	Balance blades.	26
Blades scalping grass	Cutting too low.	Raise cutting height.	11
	Turning speed too fast.	Reduce speed on turns.	
	Rough or uneven terrain.	Change mowing pattern.	17
		Adjust mower wheels.	10
		Reduce travel speed.	
Uneven cut	Low tire pressure.	Add air to tires.	
	Mower not level.	Level mower.	12
	Travel speed too fast.	Slow down.	
	Blades dull.	Sharpen and balance blades.	26
Mower loads down tractor	Mower wheels not adjusted correctly.	Adjust mower wheels.	10
	Engine rpm too low.	Mow at full throttle.	15
	Travel speed too fast.	Slow down.	
	Trash wrapped around mower spindles.	Clean mower.	
Noisy gearbox	Lubricant level low.	Check lubricant level.	24

M23;;TSBC A 250486

Periodic Service

TORQUE CHARTS

RECOMMENDED TORQUE IN LB-FT (N.m) COARSE AND FINE THREADS			
			
			
	2 (B)	5 (D)	8 (F)
Bolt Diameter	Plain Head	Three Dashes	Six Dashes
1/4	Not used	10 (14)	14 (19)
5/16	Not used	20 (27)	30 (41)
3/8	Not used	35 (47)	50 (68)
7/16	35 (47)	55 (75)	80 (108)
1/2	55 (75)	85 (115)	120 (163)
9/16	75 (102)	130 (176)	175 (237)
5/8	105 (142)	170 (230)	240 (325)
3/4	185 (251)	300 (407)	425 (576)
7/8	160 (217)	445 (603)	685 (929)
1	250 (339)	670 (908)	1030 (1396)
1-1/8	330 (447)	910 (1234)	1460 (1979)
1-1/4	480 (651)	1250 (1695)	2060 (2793)

Your mower has regular and metric hardware. Check tightness of hardware regularly. Check these charts for correct torque.

RECOMMENDED TORQUE IN Nm(LB-FT) COARSE AND FINE THREADS			
	D1 	F1 	G1 
Bolt Diameter	8.8	10.9	12.9
M5	7 (5)	9 (6)	11 (8)
M6	12 (8)	16 (11)	20 (14)
M8	30 (22)	40 (29)	45 (33)
M10	55 (40)	75 (55)	90 (66)
M12	100 (73)	135 (99)	160 (118)
M14	160 (118)	215 (158)	260 (191)
M16	245 (180)	335 (247)	400 (295)
M20	480 (354)	650 (479)	780 (575)
M24	825 (608)	1125 (829)	1350 (995)
M30	1640 (1209)	2240 (1652)	2690 (1984)
M36	2870 (2116)	3910 (2883)	4700 (3466)

A97;M32199 M34183 M23;;PSAK F 100984

CHECKING HOUR METER

Check the tractor hour meter (A) regularly to learn when your mower needs service.

After you have done all the services in an interval section (25 Hours, 100 Hours, etc.), write the date and hours on the chart.

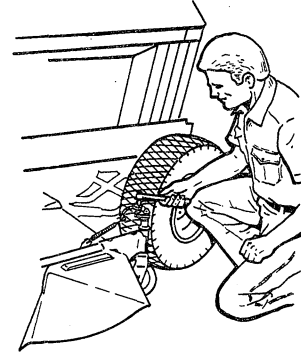


6A9;M39593 M23;;PSBC A 140486

CHECK MOWER REGULARLY

Keep all guards and shields in place.

Check mower hardware regularly for correct tightness, especially blade mounting bolts.

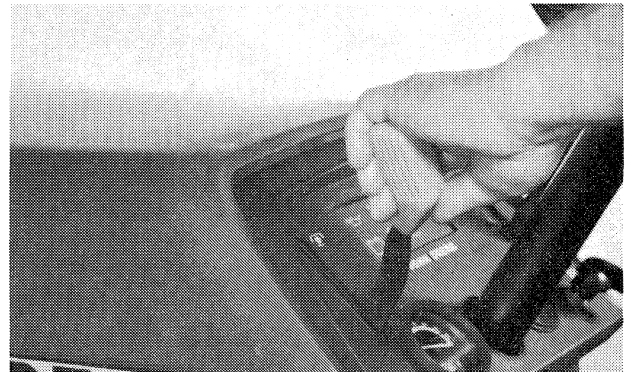


6A9;M39723 M23;;PSBC C 140486

SERVICE MOWER SAFELY

Before you service your mower:

- Disengage PTO.
- Lower mower.
- Stop engine.
- Lock park brake.
- Wait for all moving parts to stop.
- Remove key.



6A9;M39552 M23;;PSBC D 140486

25 HOURS

Lubricate wheels and front wheel spindles.

Lubricate spindles, idler sheaves, driveline.

Check gearbox oil level.

Check blades.

Check belt.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				

6A9;M33856 M23;;PSBC E 140486

500 HOURS

Change gearbox oil.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
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Hours				
Date				

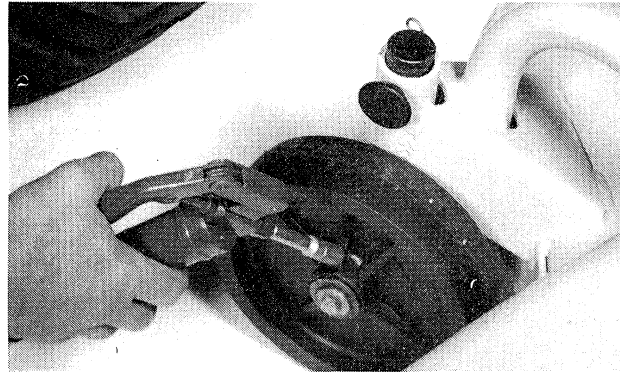
A97;M33856 M23;;PSAJ F 250984

Service/25 Hours

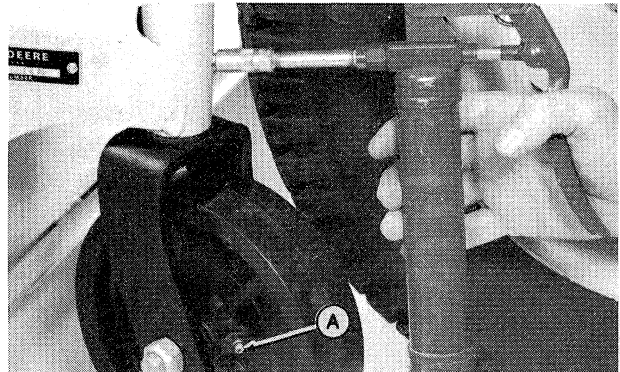
LUBRICATING WHEELS AND SPINDLES

Lubricate six points shown with one or two shots of John Deere Multi-Purpose Grease or equivalent.

Rear Wheels (2 points)



*Front Wheels (A) and
Spindles (4 points)*

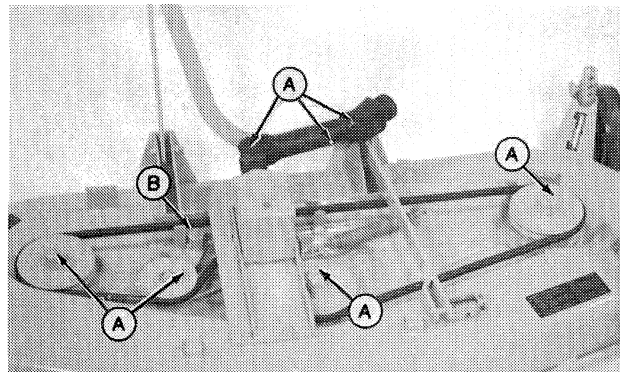


A97;M35418 M35717 M23;;SEAJ A 250984

LUBRICATING SPINDLES, IDLER SHEAVES, AND DRIVELINE

Lubricate each point (A) with one or two shots of John Deere Multi-Purpose Grease or equivalent.

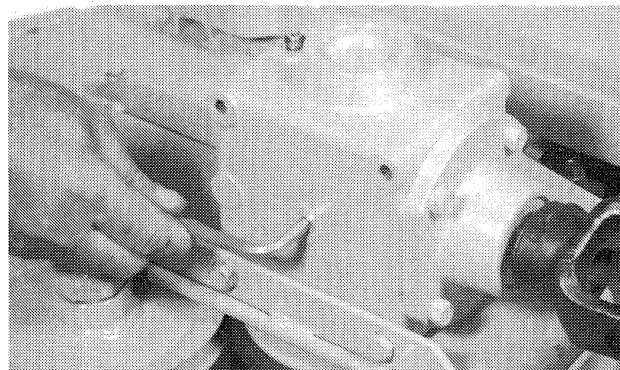
NOTE: Lubricate idler arm pivot (B) every 100 hours with one or two shots of John Deere Multi-Purpose Grease or equivalent. Also, adjust idler arm stop every 100 hours. (See Changing Gearbox Oil in Service/500-Hours section.)



6A9;M39724 M23;;SEBC A 140486

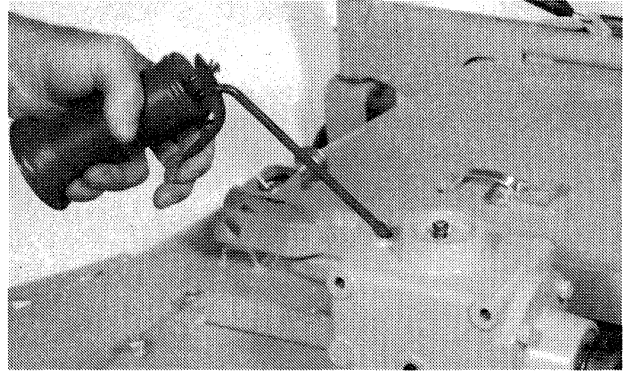
CHECKING GEARBOX OIL LEVEL

1. Park tractor on level surface.
2. Remove check plug from either side of gearbox.
3. Oil should be at bottom of check plug hole.



6A9;M39725 M23;;SEBC B 140486

4. If oil is low, remove vent plug. Clean the vent plug if necessary.
5. Add oil specified in Lubrication section.
6. Install both plugs.



6A9;M39726 M23;;SEBC C 140486

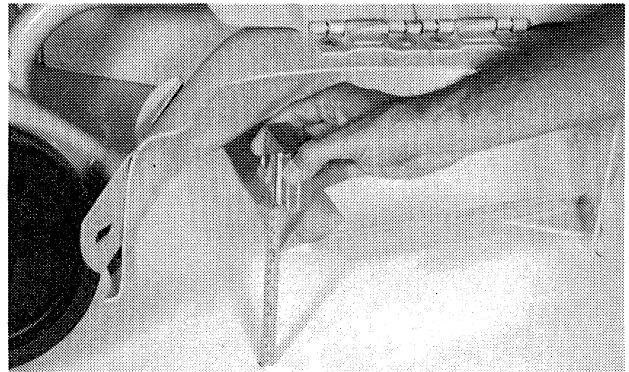
CHECKING BLADES

1. Raise mower to full height.



CAUTION: Blades may be sharp. When you handle blades, wear gloves, or wrap a rag around blade.

2. Check blades. If a blade is dull, have it sharpened and balanced.
3. If blade is damaged, install a new blade.
4. To check for bent blade, follow these steps:
 - a. Lower mower. Measure distance between blade tip and flat ground surface.
 - b. Turn blade 180 degrees. Measure distance between other blade tip and flat ground surface.
 - c. If the difference between the two distances is more than 1/16 in. (1.6 mm), install a new blade.



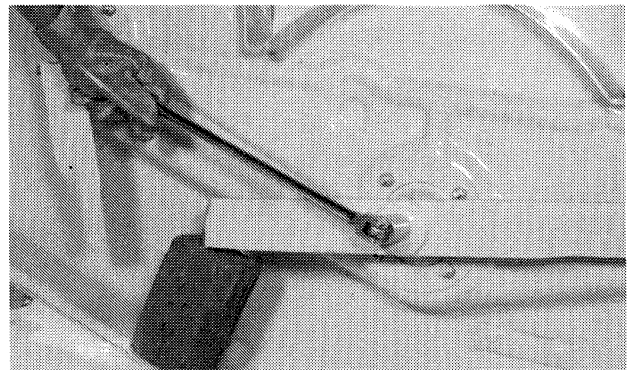
6A9;M35740 M23;;SEAL G 090884

REMOVING BLADES



CAUTION: Blades may be sharp. When you handle blades, wear gloves, or wrap a rag around blade.

1. Put a block of wood between mower blade and mower deck.
2. Remove bolt and washer.



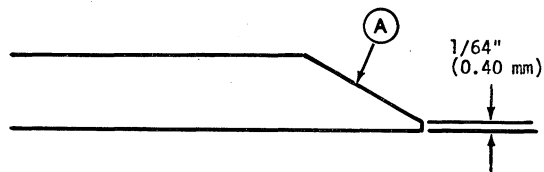
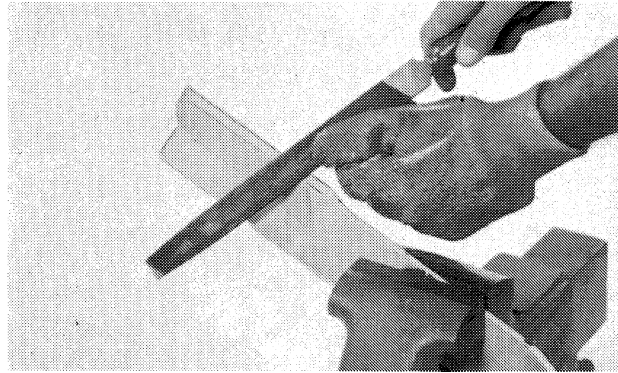
6A9;M35758 M23;;SEAL H 090884

SHARPENING BLADES



CAUTION: When you sharpen a blade, wear goggles and gloves. Balance a blade after you sharpen it. Replace a damaged blade immediately.

1. Sharpen blades with a grinder, hand file, or an electric blade sharpener.
2. Keep original bevel (A) when you grind.
3. Blade should have a 1/64-in. (0.40 mm) cutting edge: a fine edge will chip and dull faster.

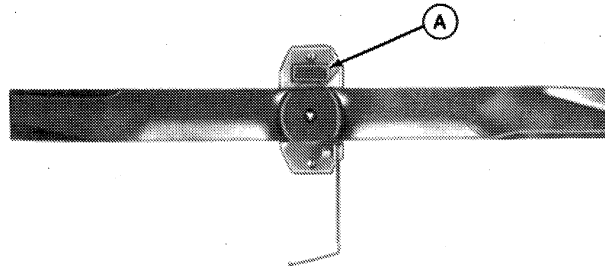


A97;M33910 M27741 M23;;SEAK E 100984

BALANCING BLADES

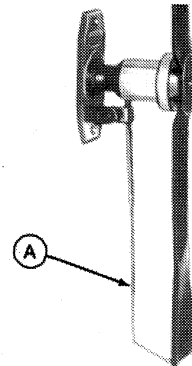
To check blade with a balancer:

1. Clean the blade.
2. Put blade horizontally on balancer (A).
3. If blade is not balanced, the heavy end will go down.
4. Grind the bevel of the heavy end. Keep bevel the same.



A97;M29527 M23;;SEAK F 100984

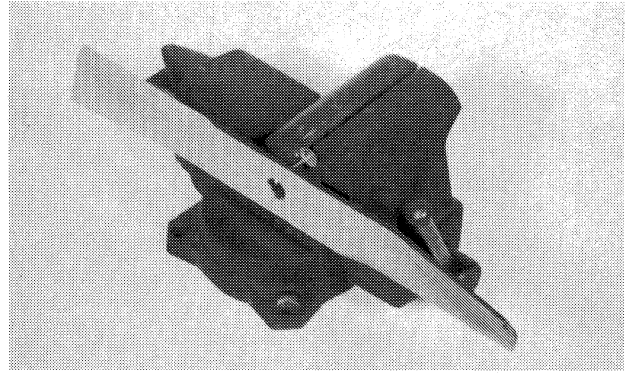
5. Adjust balancer track (A) to just miss blade tip.
6. Turn blade to opposite tip.
7. If difference between blade tip and balancer track measurements is more than 1/16 in. (1.5 mm), install a new blade.



A97;M29528 M23;;SEAK G 100984

To check blades without a balancer:

1. Clean the blade.
2. Put the blade horizontally on a nail in a vise or in a vertical wall stud.
3. If the blade is not balanced, the heavy end will go down.
4. Grind the bevel of the heavy end. Keep bevel the same.



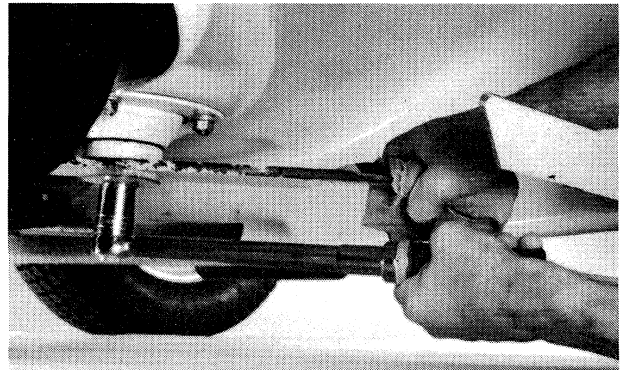
A97;M32964 M23;;SEAK H 100984

INSTALLING BLADES



CAUTION: Blades may be sharp. When you handle blades, wear gloves or wrap a rag around blade.

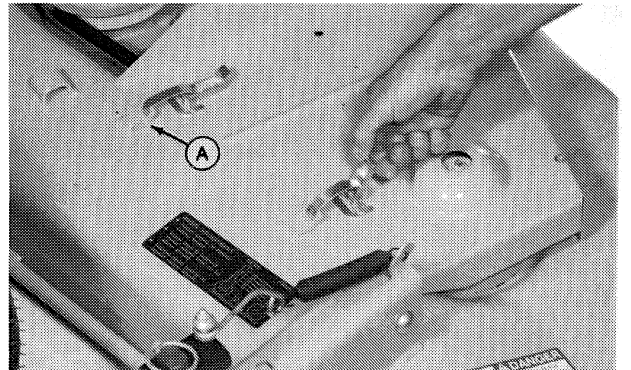
1. Fasten blade with bolt and washer.
2. Tighten bolt to 100 lb-ft (135 N·m).



A97;M35724 M23;;SEAJ K 250984

CHECKING BELT

1. Remove belt shields.
2. Check belt for wear and damage. If belt is badly frayed, cracked, or lumpy, install a new belt. (See Replacing Belt in Service/As Necessary section.)
3. Install belt shields.



6A9;M39722 M23;;SEBC D 140486

Service/500 Hours

CHANGING GEARBOX OIL

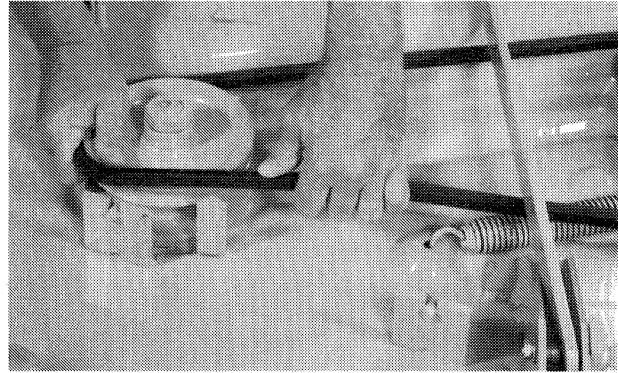
1. Remove mower. (See Removing Mower in Removal section.)

2. Remove both belt shields.



CAUTION: Be careful not to pinch fingers when you remove belt.

3. Pull belt over pulley. If you cannot remove belt, see Loosening Belt in this section.



6A9;M39727 M23;;SEBC E 140486

4. Remove two round-head bolts and nuts, and two nuts from studs.

5. Remove belt from gearbox pulley. Remove mounting bracket and gearbox as an assembly.

6. Remove vent plug.

7. Remove check plug. Turn gearbox on its side to drain oil.

8. Turn gear box upright. Add oil as necessary until oil runs out of check plug hole. (See Gearbox Oil in Lubrication section for recommended oil.)

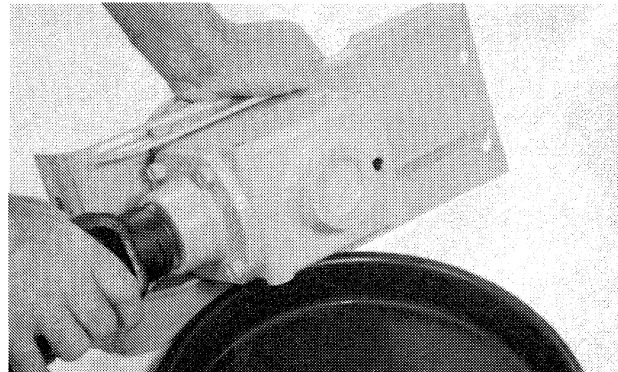
9. Install and tighten check plug and vent plug.

10. Install gearbox assembly.

11. Install belt on gearbox pulley and on all deck pulleys.

12. On 60 and 72-Inch Mowers, install idler arm stop 1/8-in. (3 mm) from idler stop. On 50-Inch Mower turn pivot plate with a 3/8-in. drive to tighten belts. Install idler arm stop bolt 1/8-in. from idler arm. Tighten bolt.

13. Install belt shields.



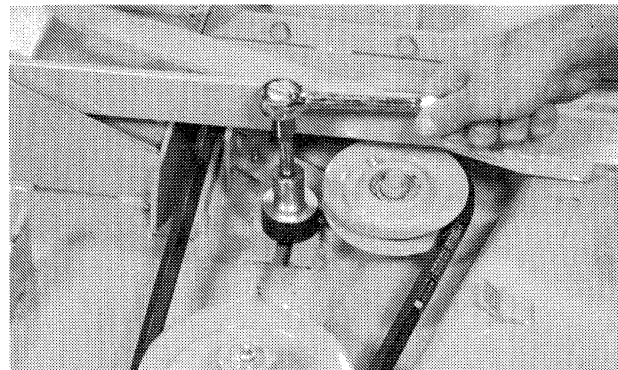
6A9;M39728 M23;;SEBC G 140486

LOOSENING BELT

60 and 72-Inch Mowers:

1. Loosen nut on idler arm stop.

2. 60-Inch Mower: Remove stop from slot. 72-Inch Mower: Move stop to end of slot.



6A9;M39729 M23;;SEBC F 140486

50-Inch Mower:

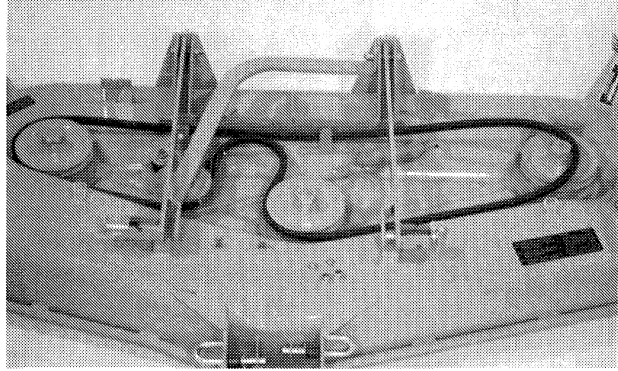
1. Loosen idler stop bolt. (See step 1 in 60 and 72-Inch Mower procedure.)
2. Loosen the eye bolt on the end of the idler spring.
3. The pivot plate fastened to two belt tension springs has a hole for a 3/8-in. drive. Turn this plate to release spring tension.

M23;;SEBC F1 140486

Service/As Necessary

REPLACING BELT

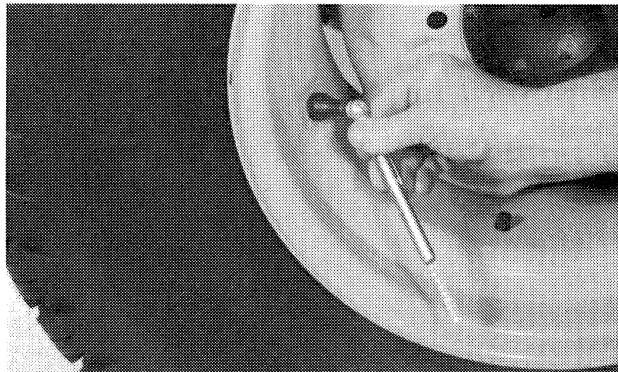
1. Follow steps 1-5 in Changing Gearbox Oil procedure in Service/500 Hours section.
2. Remove old belt. Clean the top of the deck.
3. Install new belt as shown.
4. Follow steps 10-13 in Changing Gearbox Oil procedure.



6A9;M39730 M23;;SEBC H 140486

CHECKING TIRE PRESSURE

1. Check tires for damage.
2. Check tire pressure with an accurate gauge.
3. Keep tires at correct pressure. (See your tractor operator's manual for correct pressure.)



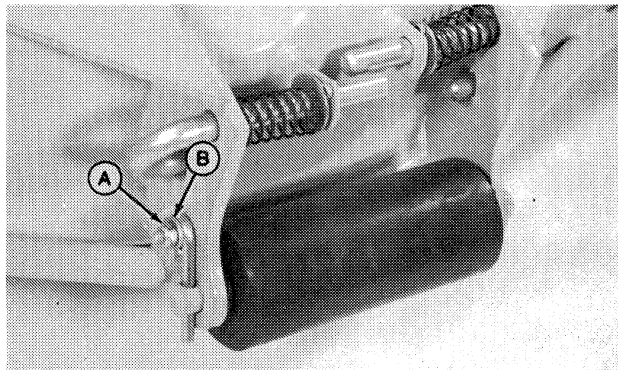
6A9;M39620 M23;;SEBC I 140486

CHECKING ROLLER SUPPORTS

NOTE: Mower is removed from tractor for this photograph:

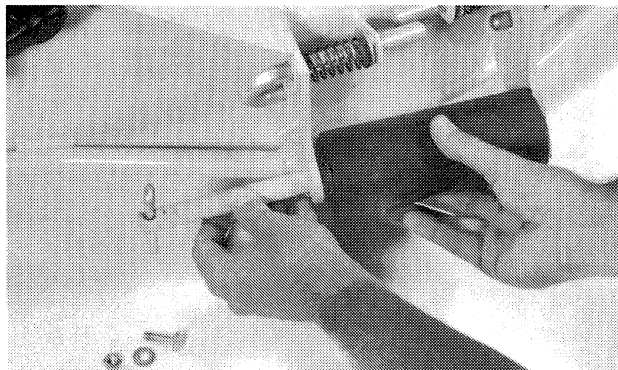
Front Roller:

1. Check roller for wear and damage. Roller must turn freely and have no flat spots. Replace roller as necessary.
2. To remove roller, remove nut (A) and washer (B).



6A9;M35755 M23;;SEBC J 140486

3. Pull out roller shaft. Remove roller.
4. Install new roller as necessary. (See your John Deere dealer for replacement parts.)
5. Install roller shaft. Fasten with hex-head bolt, hook clip, washer, and nut. Tighten nut.

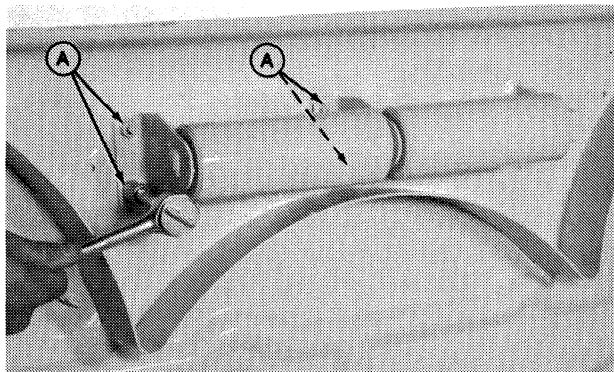


6A9;M35754 M23;;SEBC L 140486

Rear Roller:

NOTE: 50-Inch Mower has one rear roller. 60-Inch Mower shown.

1. Remove mower. (See Removing Mower in Removal section.)
2. Check rollers and brackets for wear and damage. Rollers must turn freely and have no flat spots. Replace rollers as necessary.
3. To remove rollers, remove two nuts. (A).

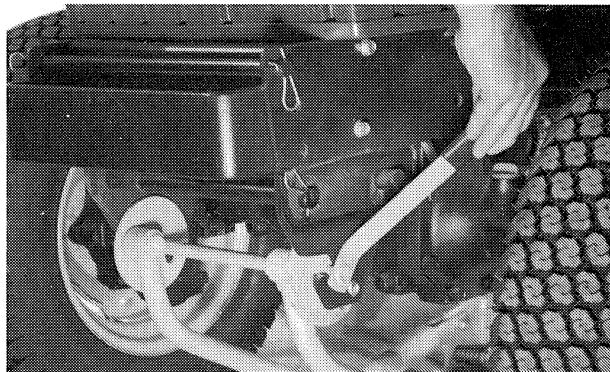


6A9;M35776 M23;;SEBC K 140486

Removal

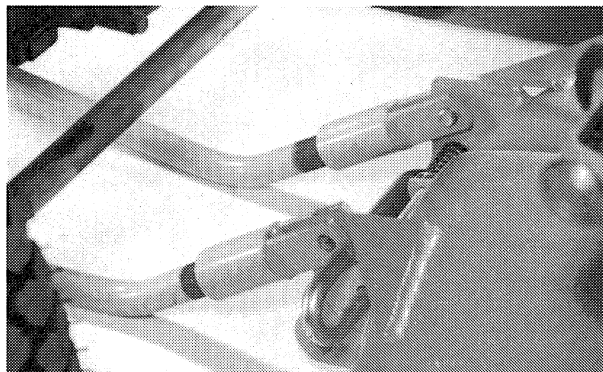
REMOVING MOWER

1. Remove left front wheel assembly from mower.
2. Put rear wheels in sideways position.
3. Stop engine. Lower mower. Turn steering wheel until front wheels are all the way to the left.
4. Stop engine. Lock park brake. Remove key.
5. Put spring pin on draft arm pivot assembly in locked position.
6. Pivot handle (shown) forward to release pivot assembly.



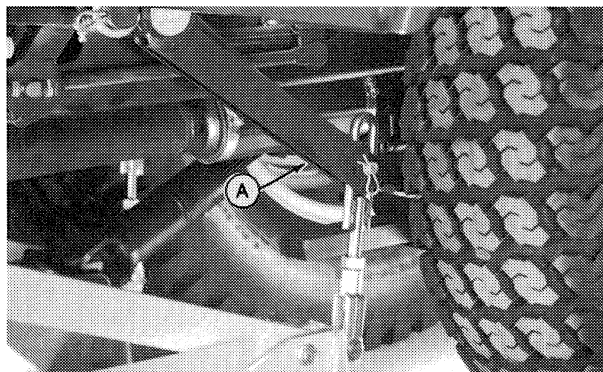
6A9;M39715 M23;;REBC A 140486

7. Pull J-pins to disconnect front draft arms.



6A9;M39713 M23;;REBC B 140486

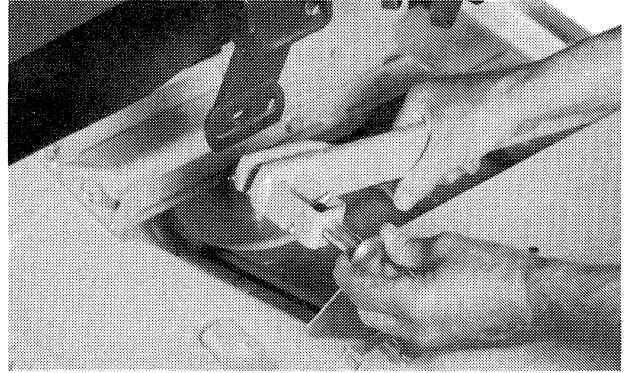
8. Remove drilled pins and spring locking pins to disconnect lift links.



6A9;M39710 M23;;REBC C 140486

Removal

9. Pull spring pins to release rear draft arms.



6A9;M39711 M23;;REBC D 140486

10. Pull driveline collar to disconnect driveline from PTO shaft. Install shield on PTO shaft.

11. Pull mower from under right side of tractor.



6A9;M39708 M23;;REBC E 140486

Storage

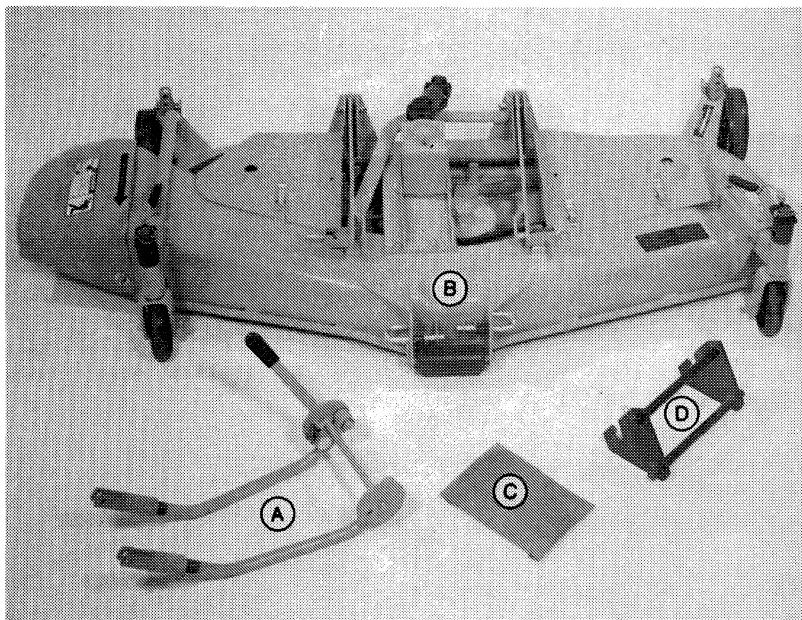
STORING THE MOWER

1. Remove mower from tractor.
2. Clean underside of mower with water pressure and scraper.
3. Inspect blades. Sharpen and balance blades. Replace damaged blades.
4. Remove belt shields.
5. Clean top of deck.
6. Check condition of belt. If necessary, get a new belt. Do not install new belt until you remove mower from storage.
7. Lubricate grease points.
8. Repair or replace worn or damaged parts.
9. Apply touch-up paint where needed to prevent rust.
10. Store mower in a clean, dry place.
11. Put a waterproof cover over mower if you store the mower outside.

M23;;STAJ A 130385

Assembly

UNPACK MOWER



A—Front Draft Arms

B—Mower

C—Bag of Parts

D—Front Bracket

NOTE: 50-Inch Mower comes in box with:

- four wheels installed upside down on deck
- front draft arms

—front bracket

—bag of parts:

—two large drilled pins with spring locking pins

60-Inch Mower (shown) comes in crate with:

- rear wheels installed upside down on deck
- front draft arms

—box of attaching parts:

PTO shaft, woodruff key, spring pin, set screw, safety wire, front bracket

large lift link assemblies (2) with jam nuts (2), yokes (2), drilled pins (4), spring locking pins (4), and cotter pins (2)

small lift link assemblies (2) with jam nuts (2), yokes (2), drilled pins (4), spring locking pins (4), and cotter pins (2).

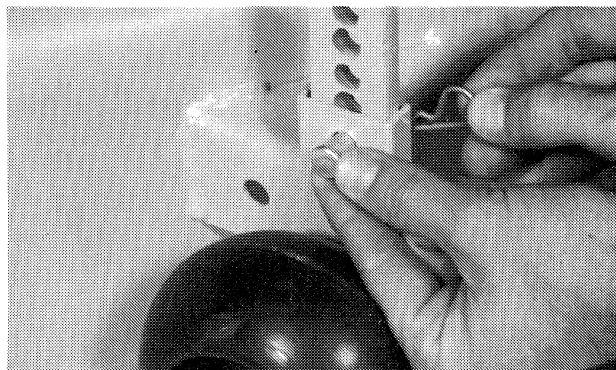
72-Inch Mower comes in crate with:

- rear wheels installed upside down on deck
- front draft arms
- front bracket
- bag of parts
- two drilled pins with spring locking pins

6A9;M39731 M23;;ASBC A 220486

INSTALL 50-INCH MOWER WHEELS

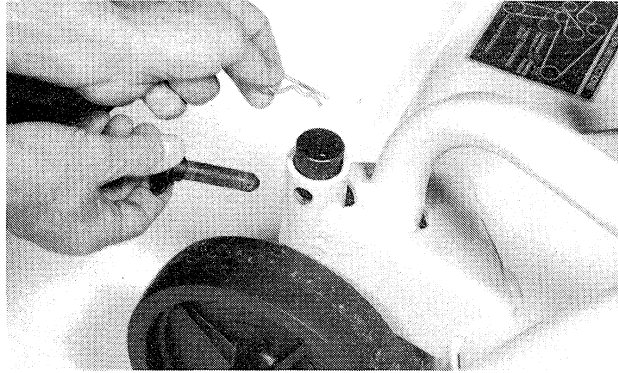
1. Install four wheels in brackets.
2. Fasten wheels with drilled pins and spring locking pins.
3. Push spring locking pins all the way onto drilled pins.



6A9;M33344 M23;;ASBC B 140486

INSTALL REAR WHEELS—60 AND 72-INCH MOWERS

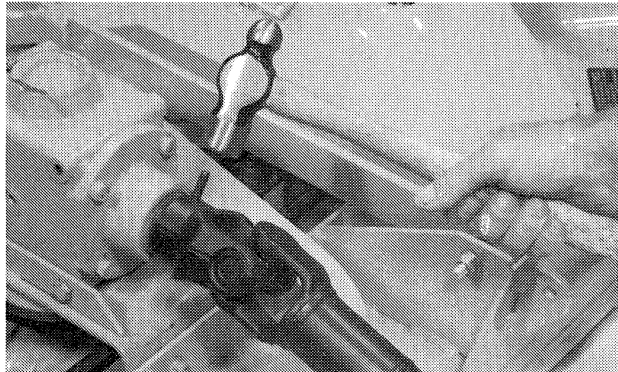
Install drilled pins. Push spring locking pins all the way onto drilled pins.



6A9;M35710 M23;;ASBC C 140486

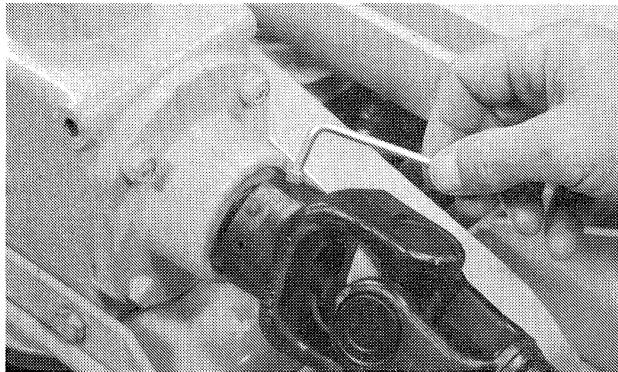
INSTALL DRIVELINE ON 60-INCH MOWER

NOTE: Two attaching bundles are available for 60-Inch Mowers: one for mounting the mower on a 755 Tractor, and one for mounting the mower on an 855 Tractor.



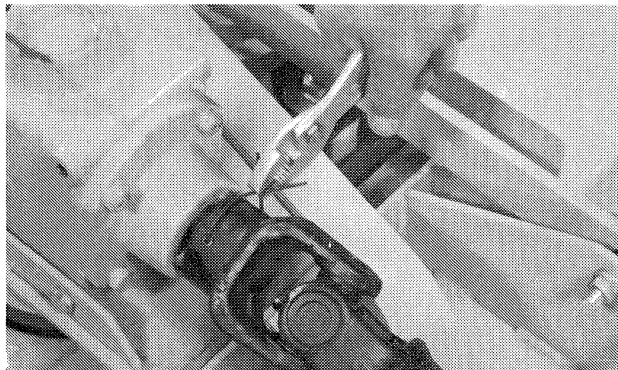
6A9;M39732 M23;;ASBC D 220486

4. Install and tighten set screw.



6A9;M39733 M23;;ASBC E 140486

5. Install safety wire.



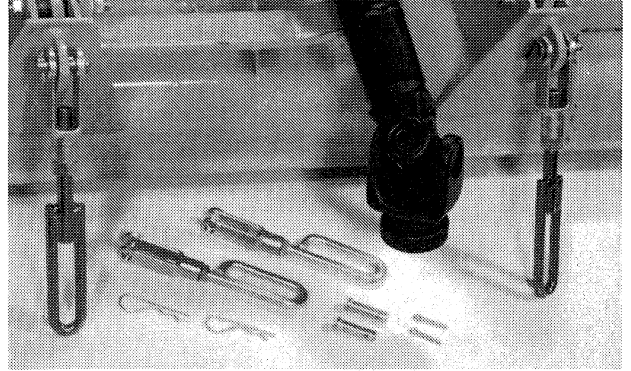
6A9;M39734 M23;;ASBC F 140486

INSTALL LIFT LINKS ON 60-INCH MOWER

Install large lift links (shown on mower) if tractor tires are:

- 9.5 x 16, R-1
- 33 x 12.5—15

Install small lift links for all other tractor tire sizes.



6A9;M39735 M23;;ASBC G 220486

Specifications

	50-Inch Mower	60-Inch Mower	72-Inch Mower
Cutting width	50 in. (1.3 m)	60 in. (1.5 m)	72.8 in. (1.8 m)
Overall width	68 in. (1.7 m)	72.5 in. (1.8 m)	85 in. (2.2 m)
Number of blades	3	3	3
Blade length	17.2 in. (437 mm)	20.5 in. (521 mm)	25 in. (635 mm)
Blade thickness	0.204 in. (5.2 mm)	0.312 in. (7.9 mm)	0.312 in. (7.9 mm)
Drive	John Deere Gearbox	John Deere Gearbox	John Deere Gearbox
Bearings	Lubricated through spindles	Lubricated through spindles	Lubricated through spindles
Gauge wheel size (front)	5 x 2-3/4 in. (125 x 70 mm)	6 x 1-3/8 in. (150 x 35 mm)	8 x 2 in. (200 x 50 mm)
Gauge wheel size (rear)	6 x 1-3/8 in. (150 x 35 mm)	8 x 2 in. (200 x 50 mm)	8 x 2 in. (200 x 50 mm)
*Cutting height	1.5 to 7.8 in. (38 to 193 mm)	1.5 to 7.8 in. (38 to 193 mm)	1.5 to 8.6 in. (38 to 218 mm)
Deck thickness	0.134 in. (10 ga)	0.134 in. (10 ga)	0.156 in. (9 ga)
Weight (approx.)	205 lb (93 kg)	325 lb (147 kg)	448 lb (203 kg)

**Cutting height may vary, depending on tire size.*

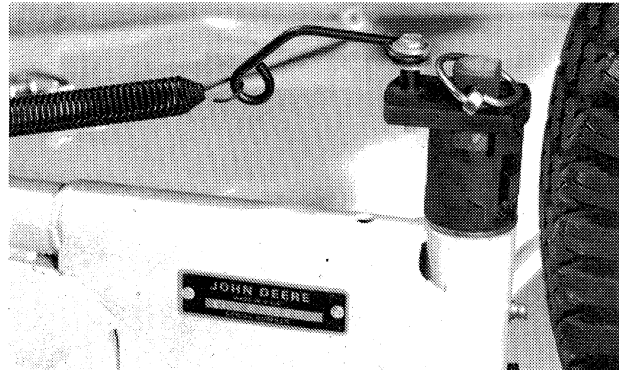
(Specifications and design subject to change without notice.)

M23;;SPBC A 220486

MOWER SERIAL NUMBER

Write your mower serial number below. Your John Deere dealer needs this number when you order parts.

Serial Number _____

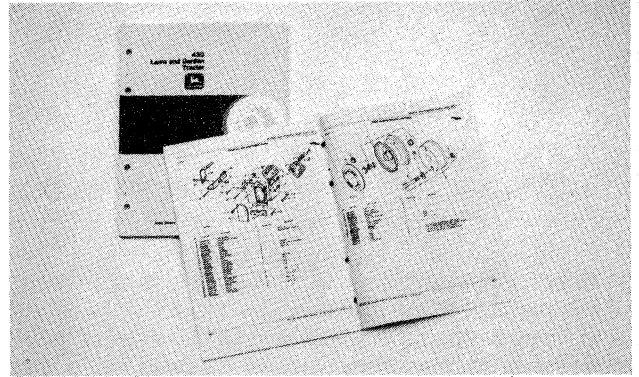


A97;M35734 M23;;SPAJ B 260984

Service Literature Available

PARTS CATALOG

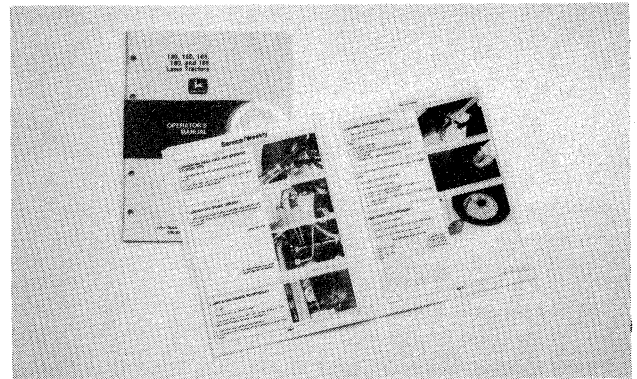
The parts catalog lists service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.



OPERATOR'S MANUAL

The operator's manual provides safety, operating, maintenance, and service information about John Deere machines.

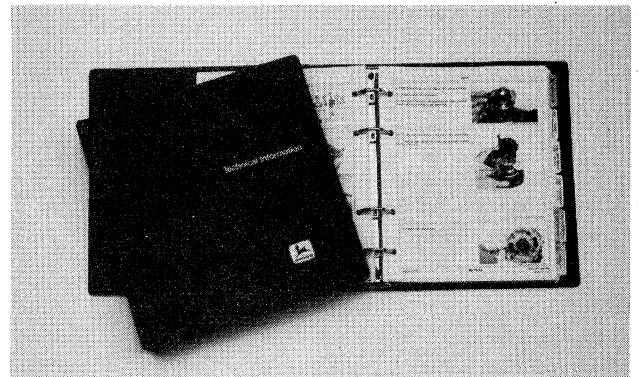
An extra copy of the operator's manual is important if the copy furnished with your machine is misplaced.



TECHNICAL AND SERVICE MANUALS

Technical and service manuals are service guides for your machine. Included in the manual are specifications, diagnosis, and adjustments. Also illustrations of assembly and disassembly procedures, hydraulic oil flows, and wiring diagrams.

Component technical manuals are required for some products. These supplemental manuals cover specific components.



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			x	=
			x	=
			x	=
FOS Manual—Engines	FCP-80101B		x	=
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John Deere is at your service when you need it

It is John Deere's objective to train all of their authorized dealer service personnel effectively so they can handle your service needs. Your dealer therefore has service technicians who are trained to give your machine the best of care. We would encourage you to use the service provided by your dealer whenever possible.

If for some reason you are unable to locate a dealer in your area, our sales branches are available to provide you with such information. The location and listing of such sales branches are shown below. Check the listing for the location of the area in which you reside.

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